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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,875	03/26/2004	Naoki Imachi	MAM-041	7613
20374 KUBOVCIK &	7590 06/04/200 z KUBOVCIK	EXAMINER		
SUITE 710		WEINER, LAURA S		
900 17TH STREET NW WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
	,		1745	
			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/809,875	IMACHI ET AL.			
		Examiner	Art Unit			
		Laura S. Weiner	1745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COM 36(a). In no event, however will apply and will expire SIX cause the application to be	MUNICATION. The may a reply be timely filed The major of this communication. The come ABANDONED (35 U.S.C. § 133).			
Status			·			
1)⊠	Responsive to communication(s) filed on 26 M	arch 2004.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
-	4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	Claim(s) is/are allowed.					
-	Claim(s) <u>1-9</u> is/are rejected.					
-	Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	r election requirem	ent .			
,0)	are subject to restriction and/o	r election requirem	SIII.			
Applicat	ion Papers					
	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a) acc					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
^;	See the attached detailed Office action for a list	or the certified cop	es not received.			
Attachmer	nt(s)					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		terview Summary (PTO-413) aper No(s)/Mail Date			
	per No(s)/Mail Date tice of Informal Patent Application					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3-04; 8-06. 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. Disclosing the materials of the separator are critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The specification does not cited materials for the separator that would allow the separator to have a shut-down temperature of 162 degrees C or less; having an area contraction ratio at 120 degrees C being 15% or less or having the difference between the film-breaking temperature and the shut-down temperature being 20 degrees C or higher at the time when the temperature rises at 15 degrees C/min.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ubukawa et al. (JP 63-205048, abstract) teaches and nonaqueous electrolyte battery comprising a separator formed with a crosslinked polyethylene microporous film to prevent the breakage of the separator.

Motomura et al. (JP 2002-246000, abstract) teaches a nonaqueous secondary battery with an excellent reliability capable of controlling a temperature of a battery where the battery comprises a separator comprising three or more layers comprising polyolefin.

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Tsurita et al. (JP 2001-015108, abstract) teaches a battery comprising an active material comprising lithium-manganese composite oxide and lithium-nickel composite oxide in the same particle.

Ubukawa et al. (JP 2000-215884, abstract) teaches a battery comprising a positive electrode comprising LiMn2O4 mixed with at least one of lithium cobaltate or lithium nickelate.

Sunakawa et al. (JP 2002-251-996, abstract) teaches a battery comprising a positive electrode comprising lithium containing manganese oxide and lithium containing cobalt oxide.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura S Weiner
Primary Examiner
Art Unit 1745

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May 29, 2007